### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization International Bureau



## (43) International Publication Date 10 March 2005 (10.03.2005)

**PCT** 

# (10) International Publication Number WO 2005/020966 A1

(51) International Patent Classification<sup>7</sup>: 31/485

A61K 9/70,

(21) International Application Number:

PCT/EP2004/008346

(22) International Filing Date:

26 July 2004 (26.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 103 40 428.7

2 September 2003 (02.09.2003) DI

- (71) Applicant (for all designated States except US): NOVO-SIS AG [DE/DE]; Carl-Feichtner-Ring 1, 83714 Miesbach (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MEYER, Elisabeth [DE/DE]; Zwergerweg 1b, 83714 Miesbach (DE). ALTENSCHOEPFER, Peter [DE/DE]; Hirschbergstr. 10, 83707 Bad Wiessee (DE). WOESS, Angelika [DE/DE]; Bayrischzellerstr. 6, 83714 Miesbach (DE). MCLEOD, Sarah [GB/DE]; Hans-Mielich-Str. 27, 81543 München (DE).

- (74) Agent: FISCHER, Wilfried, Dr.; Novosis AG, Carl-Feichtner-Ring 1, 83714 Miesbach (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TRANSDERMAL FORMULATION COMPRISING AN OPIOID ANALGESIC AND AN ALOE COMPOSITION

(57) Abstract: The invention concerns a formulation comprising an apioid analgesic from the phenanthrene group or a pharmaceutically acceptable salt thereof as active ingredient and an aloe composition as transdermal penetration agent.